

Patent Abstracts of Japan

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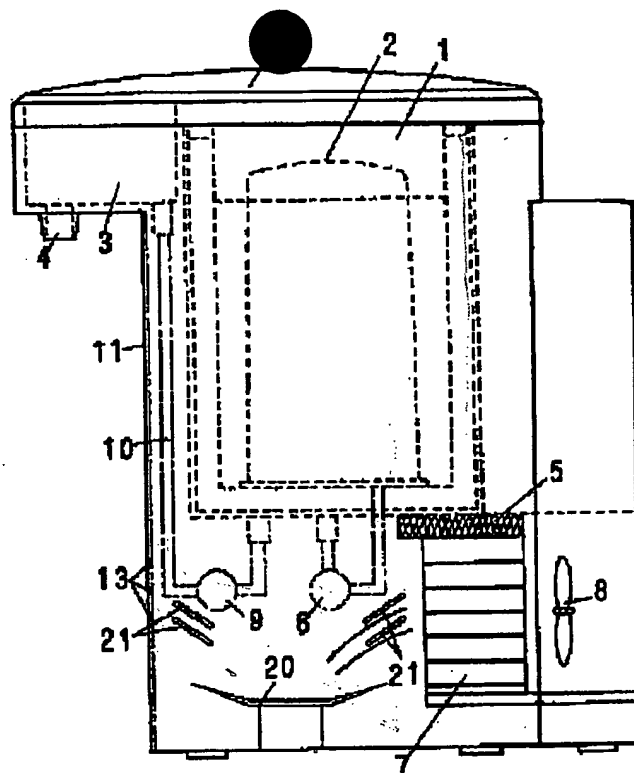
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TITLE : WATER CLEANER PROVIDED WITH
COOLING FUNCTION



ABSTRACT : PROBLEM TO BE SOLVED: To surely prevent dropwise condensation from being generated by a constitution wherein a fan for dissipating heat dissipation from a Peltier element for cooling water in a water storage tank to the outside of a casing is installed and the dissipating hot air is blown to a water receiving tray to dry water stored in the water receiving tray.

SOLUTION: City water is stored in a water storage tank 1 and a cleaning cylinder 2 filled with active carbon, filter and mineral water forming material is placed therein and water is discharged from a water supply hole 4 from the bottom part of the water storage tank 1 through a hollow fiber membrane filter 3 by means of a water supply pump 9. A Peltier element 5 is mounted on the back side of this water storage tank 1 and by sending water in the water storage tank 1 to the element by a circulation pump 6, water is cooled and this water is cleaned by sending it to the bottom part of the cleaning cylinder 2. In addition, a water receiving tray 20 for collecting water being dropwisely condensed on the surface of the water storage tank 1 is provided on the back side of the water storage tank 1 and the Peltier element 5 is cooled by blowing wind of a fan to a cooling fin 7 and on the other hand, hot air is blown to the water receiving tray 20 to dry up water. Dropwise condensation is prevented from being generated without taking out water in the water receiving tray 20.

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